## Head Units Specifications

| | | | | DEH-P6050UB | DEH-P5050UB | DEH-P4050UB | DEH-3050UB | DEH-P3000IB | DEH-3050MP | DEH-2050MP(G) | DEH-1050E | DEH-P80RSII |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CD PLAYER** | | | | | | | | | | | | |
| S/N ratio [1 kHz, IEC-A Network] | | | dB | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 105 |
| **TUNER** | | | | | | | | | | | | |
| Frequency range | FM | | MHz | 87.5 to 108 | 87.5 to 108 | 87.5 to 108 | 87.5 to 108 | 87.5 to 108 | 87.5 to 108 | 87.5 to 108 | 87.5 to 108 | 87.5 to 108 |
| | AM [10 kHz] | | kHz | 530 to 1 640 | 530 to 1 640 | 530 to 1 640 | 530 to 1 640 | 530 to 1 640 | 530 to 1 640 | 530 to 1 640 | 530 to 1 640 | 530 to 1 640 |
| | [9 kHz] | | kHz | 531 to 1 602 | 531 to 1 602 | 531 to 1 602 | 531 to 1 602 | 531 to 1 602 | 531 to 1 602 | 531 to 1 602 | 531 to 1 602 | 531 to 1 602 |
| FM usable sensitivity [75 Ω, mono, S/N: 30 dB] | | | dBf | 8 [0.7 µV] | 8 [0.7 µV] | 8 [0.7 µV] | 8 [0.7 µV] | 8 [0.7 µV] | 8 [0.7 µV] | 8 [0.7 µV] | 8 [0.7 µV] | 8 [0.7 µV] |
| AM usable sensitivity [S/N: 20 dB] | | | µV | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 |
| **AUDIO** | | | | | | | | | | | | |
| Max. power output* | | | | 50 W × 4 | 50 W × 4 | 50 W × 4 | 50 W × 4 | 50 W × 4 | 50 W × 4 | 50 W × 4 | 50 W × 4 | 50 W × 4 |
| Continuous power output | | | | 22 W × 4 | 22 W × 4 | 22 W × 4 | 22 W × 4 | 22 W × 4 | 22 W × 4 | 22 W × 4 | 22 W × 4 | 22 W × 4 |
| **GENERAL** | | | | | | | | | | | | |
| Dimensions [W × H × D] | DIN | Chassis | mm | 178 × 50 × 165 | 178 × 50 × 162 | 178 × 50 × 162 | 178 × 50 × 162 | 178 × 50 × 170 | 178 × 50 × 162 | 178 × 50 × 162 | 178 × 50 × 162 | 178 × 50 × 159 |
| | | Nose | mm | 188 × 58 × 18 | 188 × 58 × 14 | 188 × 58 × 14 | 188 × 58 × 22 | 188 × 58 × 9 | 188 × 58 × 14 | 188 × 58 × 15 | 188 × 58 × 15 | 188 × 58 × 30 |
| | D | Chassis | mm | 178 × 50 × 165 | 178 × 50 × 162 | 178 × 50 × 162 | 178 × 50 × 162 | 178 × 50 × 165 | 178 × 50 × 162 | 178 × 50 × 162 | 178 × 50 × 162 | 178 × 50 × 164 |
| | | Nose | mm | 170 × 45 × 18 | 170 × 46 × 14 | 170 × 46 × 14 | 170 × 48 × 22 | 170 × 48 × 14 | 170 × 47.4 × 14 | 170 × 47.4 × 15 | 170 × 47.4 × 15 | 170 × 45 × 25 |

*Peak momentary power output

## iPod® and Firmware Versions Operable with Head Unit

**DEH-P6050UB/DEH-P5050UB/DEH-P4050UB**

| iPod® Model | Firmware Version |
|---|---|
| iPod fifth generation | 1.2.1 |
| iPod nano first generation | 1.3.1 |
| iPod nano second generation | 1.1.3 |
| iPod nano third generation | 1.0.2 |
| iPod classic | 1.0.2 |
| iPod touch | 1.1.1 |

**DEH-P3000IB**

| iPod® Model | Firmware Version |
|---|---|
| iPod third generation | 2.3 |
| iPod forth generation | 3.1.1 |
| iPod photo | 1.2.1 |
| iPod fifth generation | 1.2.1 |
| iPod mini | 1.4.1 |
| iPod nano first generation | 1.3.1 |

**DEH-P3000IB (continued)**

| iPod® Model | Firmware Version |
|---|---|
| iPod nano second generation | 1.1.3 |
| iPod nano third generation | 1.0.2 |
| iPod classic | 1.0.1 |
| iPod touch | 1.1.1 |

Notes: Head unit may not operate other iPod® models.
Operations may vary depending on the software version of iPod®.

## Symbols for Special Features

### Head Unit Section

- AUX-In Connectivity
- IP-Bus Control
- CD-R/RW Compatibility
- Supertuner® IIID+/ Supertuner® IIID
- Easy Equalizer
- USB Direct Connection
- MP3
- Detachable Face Security™ (DFS)
- RCA Output or RCA Pre-out
- BBE® digital
- Front USB Direct Connection
- WMA (Windows Media™ Audio)
- MOSFET 50 W × 4
- Subwoofer Control
- Digital Signal Processor
- iPod® Direct Connection
- iTunes® AAC (Advanced Audio Coding)
- OEL (Organic EL) Display • Dot-Matrix OEL • Segmented OEL
- High-Voltage Pre-out

### Amplifier Section

- Bass Boost
- Low Pass Filter
- RCA Input
- Speaker Level Inputs

### Subwoofer & Speaker Section

- Air Suspension System
- IMPP (Injection-Molded Polypropylene) Composite Cone

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*iTunes is a trademark of Apple Inc., registered in the U.S. and other countries. AAC players can decode only those AAC files ripped and encoded using iTunes®.*
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Pioneer Corporation Meguro Headquarters and the Kawagoe Plant have acquired ISO 14001 certification.

**For more information, call or write to:**

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sound. vision. soul

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**http://pioneer.jp**

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ADKI 11-07 Printed in Japan.

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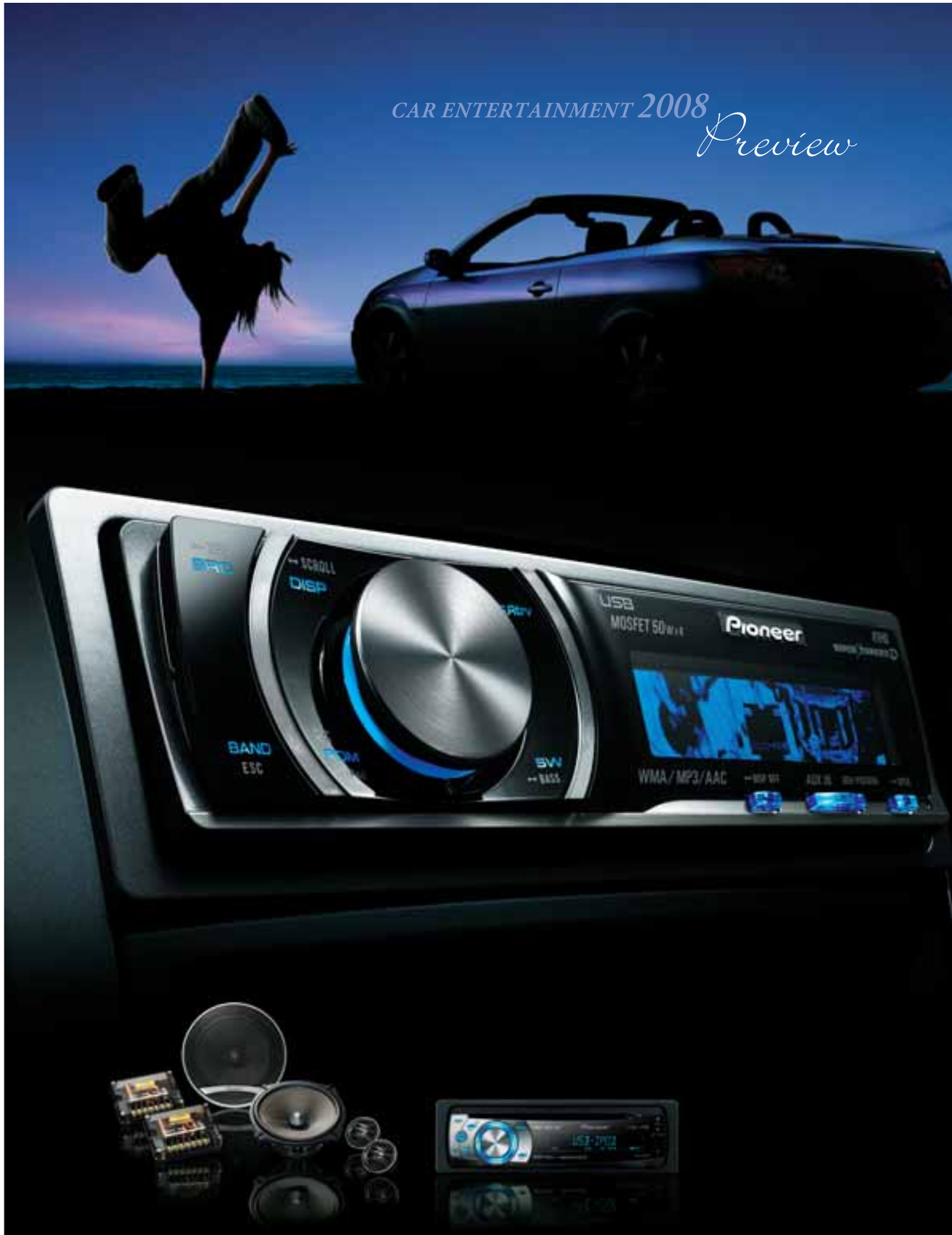


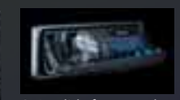
# HOOK UP TO HIGHER SENSATION

Get carried away in a rising tide of sound. If you've got the player, a Pioneer head unit has the direct connection to hook up your iPod®, USB memory or other external portable digital device. Better yet, fast, easy access to all of that great-sounding music while you're on the road isn't the climax of car entertainment's next movement—it's just the beginning.

## DEH-P6050UB

4-Channel High-Power WMA/MP3/AAC/CD Receiver with USB Direct Connection

MOSFET 50W×4 · OEL · MP3 · AAC · 3 RCA pre-outs · Hi-VOLT · IP-BUS control · SUPER TUNER IIID · EEQ · Detachable face security · Subwoofer control · CD-R/RW



Auto-slide face panel

- Dot-Matrix OEL (Organic EL) display
- Auto-slide face
- Direct AUX-in by mini jack (rear)
- USB direct connection: USB 2.0 (full speed)
- iPod® direct connection (use with CD-IU50)
- Bluetooth® adapter ready
- Advanced Sound Retriever
- 24-bit Delta Sigma D/A Converter (USB)
- EEQ —7-band digital graphic equalizer
- Rotary Commander
- Direct Sub Drive
- 3 RCA pre-outs (front + rear + subwoofer)
- Level indicator
- Spectrum analyzer
- Multi-language display (English/Spanish/Portuguese)

AUX IN · USB · Made for iPod

## USB Direct Connection

DEH-P6050UB · DEH-P5050UB · DEH-P4050UB · DEH-3050UB

Take your favorite MP3, WMA and AAC files for a ride. With direct connection of a new Pioneer head unit to a portable digital player, USB memory device or other USB-compatible gear, you can play in your car whatever you've recorded via PC. It's fast and easy. No adapters are required. 24-bit Delta Sigma D/A Converter built into the head units assures extraordinary sound quality.

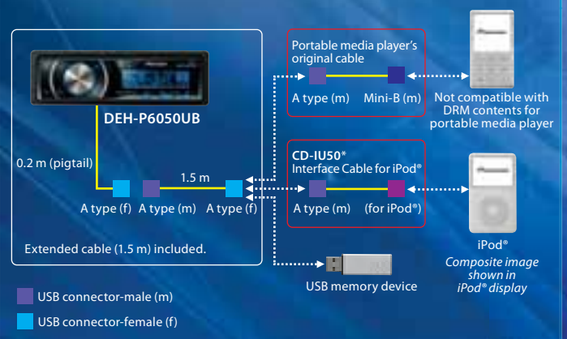
*NOTE: Unauthorized copying of music is strictly prohibited. Not every device is compatible. See more details in Pioneer website. Compatible with USB memory device only. Not compatible with DRM (Digital Rights Management) contents and MTP (Media Transfer Protocol) connection players.*

## CD-IU50 Interface Cable for iPod®

Optionally available for connecting an iPod nano or iPod® to the DEH-P6050UB, DEH-P5050UB and DEH-P4050UB.

Made for iPod

### Connection Example for USB Devices Compatible with MSC




** CD-IU50 Interface Cable for iPod® optionally available for connecting an iPod nano or iPod® to the DEH-P6050UB, DEH-P5050UB and DEH-P4050UB. Please see back cover for details about iPod® compatibility with Pioneer head units. A 3rd or 4th generation iPod® requires CD-IB100II.*

## iPod® Direct Connection by USB

DEH-P6050UB · DEH-P5050UB · DEH-P4050UB

Pioneer's new head unit is ready to roll with capability for direct connection* to iPod nano and iPod®. File search and access are extra-quick. The head unit keeps song, artist, time and album information displays very clear and user-friendly.

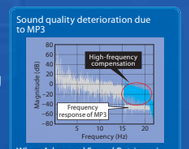
Made for iPod

** DEH-P6050UB/DEH-P5050UB/DEH-P4050UB connection requires CD-IU50 Interface Cable for iPod®.*

## Advanced Sound Retriever

DEH-P6050UB · DEH-P5050UB · DEH-P4050UB · DEH-3050UB

Hear the glory of original sound across a deeper, wider spectrum from highly compressed MP3, WMA and AAC files stored on USB memory device, iPod® and portable digital players. By compensating for data (especially higher frequencies) that tend to get lost in the digital compression process, Pioneer's Advanced Sound Retriever technology enhances audio reproduction nearly all the way up to 20 kHz frequencies.




When Advanced Sound Retriever is "ON", the high frequency range is compensated to match the frequency response curve of the original sound.

## AUX-In Connection

AUX IN

ALL MODELS

It's easy to add to your Pioneer car entertainment system. Each of Pioneer's latest head units has a built-in AUX-in (front or rear) for connection to digital audio players and other external devices.

## Dot-Matrix OEL (Organic EL) Display

OEL

DEH-P6050UB

Take a cool look. Excellent contrast and brightness, choice of two-layered 3D animation images and a wider viewing angle range provide clear, trouble-free viewing from virtually any position, even in sunlight.

## Display Off Enhances Security and Ambience

DEH-P6050UB · DEH-P80RSII

To avoid unwanted attention and indulge more completely in the listening experience, press and hold the DISP OFF button for two seconds, and all head unit illumination and display lights (except that for the DISP OFF button) turn off instantly, even while the head unit is in playback mode.

# DEH-P5050UB

4-Channel High-Power WMA/MP3/AAC/CD Receiver with USB Direct Connection

- Segmented OEL (Organic EL) display
- Direct AUX-in by mini jack (rear)
- USB direct connection: USB 2.0 (full speed)
- iPod® direct connection (use with CD-IU50)
- Bluetooth® adapter ready
- Advanced Sound Retriever
- EEQ
  —3-band parametric equalizer
- Rotary Commander
- Direct Sub Drive
- 3 RCA pre-outs (front + rear + subwoofer)

# DEH-P4050UB

4-Channel High-Power WMA/MP3/AAC/CD Receiver with USB Direct Connection

- Segmented OEL (Organic EL) display
- Direct AUX-in by mini jack (front)
- USB direct connection: USB 2.0 (full speed)
- iPod® direct connection (use with CD-IU50)
- Bluetooth® adapter ready
- Advanced Sound Retriever
- EEQ
  —3-band parametric equalizer
- Rotary Commander
- Direct Sub Drive
- 3 RCA pre-outs (front + rear + subwoofer)

## Segmented OEL Display

DEH-P5050UB DEH-P4050UB

Clarity, brightness and contrast are balanced to perfection on Pioneer head unit organic electroluminescent displays. An uncluttered one-/two-line character readout is straightforward and easy on the eyes. A wide viewing angle range makes entertainment system operating information simple to monitor from any position under all circumstances.

2-line type display (DEH-P5050UB)

1-line type display (DEH-P4050UB)

## Rotary Commander with List Key

DEH-P6050UB DEH-P5050UB DEH-P4050UB DEH-3050UB DEH-P3000IB

Next to the Rotary Commander on the new DEH-P4050UB and DEH-P3000IB sits a large LIST key for extra-quick, easy file search and access. Press it to display folder or file lists, rotate the commander dial to search, then press the commander button for playback.

# DEH-3050UB

4-Channel High-Power WMA/MP3/CD Receiver with USB Direct Connection

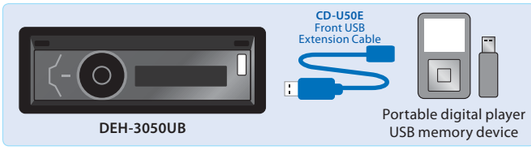
- Direct AUX-in by mini jack (rear)
- Front USB direct connection: USB 2.0 (full speed)
- Advanced Sound Retriever
- EEQ
  —3-band parametric equalizer
- Rotary Commander
- Direct Sub Drive
- 2 RCA pre-outs: selectable (front + rear/front + subwoofer)

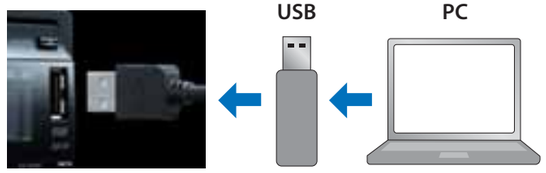
## Front USB Direct Connection

DEH-3050UB

A built-in front USB port puts a very versatile face on the new Pioneer DEH-3050UB head unit. It's easier to connect quickly to a USB memory device, USB audio player, or other portable digital player.

*Note: Since connecting a USB memory device directly into a front USB port can interfere with safe driving, Pioneer recommends using the CD-U50E optional front USB extension cable to connect a USB memory device to a DEH-3050UB.*




## CD-U50E Front USB Extension Cable

Optionally available for connecting a USB memory device to the DEH-3050UB.

# DEH-P3000IB

4-Channel High-Power WMA/MP3/AAC/CD Receiver with iPod® Direct Connection

Limited distribution

- Direct AUX-in by mini jack (front)
- iPod® direct connection (use with CD-I200)
- USB adapter ready
- Bluetooth® adapter ready
- BMX (Bitmetric Equalizer)
- EEQ
  —3-band parametric equalizer
- Rotary Commander
- Direct Sub Drive
- 2 RCA pre-outs: selectable (front + rear/front + subwoofer)

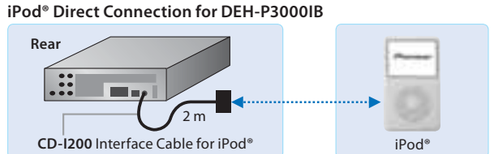
## iPod® Direct Connection

DEH-P3000IB

Connect an iPod nano or iPod® to the new DEH-P3000IB*, and you can control menus, shuffle function, songs, podcasts and audiobook chapters in the iPod® through the head unit interface as quickly and easily as you would on the iPod® itself. Don't worry about your iPod® battery running low on power—this direct connection also recharges the unit during playback.

**Please see back cover for details about iPod® compatibility with Pioneer head units.*

**iPod® Direct Connection for DEH-P3000IB**




## Now, For More iPod® "Control Mode" Controllability

DEH-P6050UB DEH-P5050UB DEH-P4050UB DEH-P3000IB

When connected to a new Pioneer head unit*, an iPod® can be controlled directly through the iPod® interface to engage track search and playback. Activate iPod® "Control Mode", and you can engage "track up/down" and "no display" via the head unit interface.

**Please see back cover for details about iPod® compatibility with Pioneer head units.*

## CD-I200 Interface Cable for iPod®

Optionally available for connecting iPod® to the DEH-P3000IB.

# DEH-3050MP 4-Channel High-Power WMA/MP3/CD Receiver

- Direct AUX-in by mini jack (front)
- BMX (Bitmetric Equalizer)
- Rotary volume
- 1 RCA pre-out (rear)

# DEH-2050MP/DEH-2050MPG 4-Channel High-Power WMA/MP3/CD Receiver

**DEH-2050MP**

- Direct AUX-in by mini jack (front)
- BMX (Bitmetric Equalizer)
- Rotary volume
- 1 RCA pre-out (rear)

**DEH-2050MPG**

Distribution of these models is limited to certain areas.

## AUX-In Connection

ALL MODELS

Hook up your portable digital devices with ease in an instant. Each of Pioneer's latest head units has a built-in AUX input for connecting a digital portable player and other external auxiliary devices. For extra-convenient access, the new head units include front* panel AUX-in.

** DEH-P4050UB/DEH-P3000IB/DEH-3050MP/DEH-2050MP/DEH-2050MPG/DEH-1050E*

# DEH-1050E 4-Channel High-Power CD Receiver

- Direct AUX-in by mini jack (front)
- Rotary volume
- 1 RCA pre-out (rear)

## EEQ (Easy Equalizer)

ALL MODELS

Sound shaping is at your command. You can adjust the sound according to in-car acoustic characteristics and the music you listen to.

**5-Mode Preset Equalizer**

You can switch among five preset equalization curves* (Super Bass/Powerful/Natural/Vocal/Flat) simply by pushing an EQ button. Each of these settings boosts bass and high-frequency ranges in ways that suit the music best.

** Dynamic/Powerful/Natural/Vocal/Flat in the DEH-3050MP, DEH-2050MP, DEH-2050MPG and DEH-1050E.*

**2-Mode Custom Preset Equalizer**

Create and memorize your favorite equalization curves from an amazing variety of sound-shaping dimensions and combinations, just as you like. Custom-1 mode can memorize adjusted preset curves using 7-band* digital equalizer settings for each source (Source EQ memory). Custom-2 mode can register your favorite custom curve (based on Flat mode** curve) for all sources using the 7-band* digital equalizer.

** L/R independent 16-band for DEH-P80RSII.*
*** Flat mode also remains after customizing equalization curve.*

**1-Mode Custom Preset Equalizer**

Pioneer's head units feature a 1-mode custom preset equalizer for creating your favorite sound curve from an amazing variety of sound-shaping dimensions/combinations exactly as you like. This mode can memorize adjusted preset curves by 3-band parametric equalizer* settings for each source.

** Bass/mid/treble equalizer for DEH-3050MP, DEH-2050MP, DEH-2050MPG and DEH-1050E.*

**2-Way Crossover (HPF/LPF)**

Our most feature-loaded models allow extra EEQ flexibility with selectable HPF (High Pass Filter) and LPF (Low Pass Filter). Head units of these systems can perform as amplifiers or separate crossover units for easier system control, particularly of low-frequency signals.

**3-Mode Selectable Loudness**

Select among three levels (high/mid/low) to instantly boost volume when driving noise overpowers in-car sound.

**2-Mode Selectable Loudness**

Select high or low volume boost level when extraneous noise drowns out your sound system.

**Selectable FIE (Front Image Enhancer)**

Enhance front sound imaging without sacrificing rear speaker bass. You can choose among three effect settings.

| | DEH-P6050UB | DEH-P5050UB | DEH-P4050UB | DEH-3050UB | DEH-P3000IB | DEH-3050MP | DEH-2050MP(G) | DEH-1050E | DEH-P80RSII |
|---|---|---|---|---|---|---|---|---|---|
| 5-mode preset equalizer | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Custom preset equalizer <2 = 2-mode, 1 = 1-mode> | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| Digital graphic equalizer <16 = 16-band, 7 = 7-band> <L/R = L/R independent> | 7 | | | | | | | | 16, L/R |
| 2-way crossover: HPF/LPF <L/R = L/R independent> | ● | ● | ● | ● | ● | | | | L/R |
| 3-band parametric equalizer | | ● | ● | ● | ● | | | | |
| Bass Boost | ● | ● | ● | ● | ● | | | | |
| Selectable loudness <3 = 3-mode, 2 = 2-mode> | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | |
| Nuance control | ● | | | | | | | | ● |

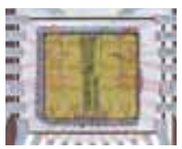
## Built-in 50 W × 4-Channel High-Power MOSFET Amplifier

ALL MODELS

To minimize voltage loss in its head unit amplifiers, Pioneer built-in high-performance Power MOSFET integrated circuitry that processes signals efficiently at 50 W × 4 maximum total output.

High-speed MOSFET switching reduces distortion to virtually nothing at high frequency ranges, thanks to superior characteristics of linearity that smooth the signal transmission path from input to output. Pioneer's independent routing of input and output current is essential to obliterating distortion.

High power of 50 W per channel and characteristics of the bonding wire ensure excellent sound quality. The 99.99 % pure OFC (oxygen-free copper) bonding wire has low electrical resistance, so minimal electric power is lost as heat in the IC chip, enhancing power handling efficiency as well as sound quality.



Power MOSFET high-power IC chip

## BMX (Bitmetric Equalizer)

DEH-P3000IB | DEH-3050MP | DEH-2050MP | DEH-2050MPG | DEH-P80RSII

Audio compression formats such as MP3 and WMA tend to lose high-frequency sound levels, especially in passages when recorded signal input is weak.

Pioneer's BMX (Bitmetric Equalizer) compensates for this by boosting playback of upper frequency sound, to the benefit of overall musical balance.

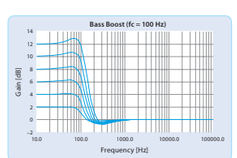
- **BMX1**: Recommended for enhancing brightness and depth of sound and sense of ambient space.
- **BMX2**: Recommended for even richer sound (more volume in the low and middle range) than BMX1 offers.

## Bass Boost

DEH-P6050UB | DEH-P5050UB | DEH-P4050UB | DEH-3050UB | DEH-P3000IB

Bass Boost offers a choice between 0 dB to 12 dB level settings that can be adjusted in 2 dB steps, letting you set the optimal bass level for each speaker and subwoofer connected to a system, according to preference and music style.

The result is more precise control over the balance of sounds to enhance the overall impact of the music you listen to.



# PURIFY YOUR SOUL

## DEH-P80RSII Component CD Player/Receiver

High-quality Burr Brown D/A converter

- White dot-matrix OEL (Organic EL) display
- iPod® adapter ready
- USB adapter ready (external unit control)
- Bluetooth® adapter ready (external unit control)
- Burr Brown advanced segment-type 24-bit D/A Converter

- Built-in DSP
  - —EEQ
  - —Auto EQ
  - —Auto EQ for 3-way network
  - —Auto time alignment
  - —BBE® digital sound processing
  - —Digital listening position selector
  - —BMX (Bitmetric Equalizer)

- —L/R independent 16-band digital graphic equalizer
- —L/R independent 2-way crossover: HPF/LPF
- —L/R independent 3-way crossover: high/mid/low
- —3-way digital network
- Auto-slide face
- Rotary Commander
- 3 gold-plated RCA pre-outs (front + rear + subwoofer)
- Level indicator (L/R independent)
- Spectrum analyzer
- Multi-language display (English/Spanish/Portuguese)

## PRS-A900 400 W MAX. 4-Channel Bridgeable Power Amplifier

- 50 W × 4 (4 Ω)/100 W × 2 (4 Ω)/50 W × 4 (2 Ω) (continuous power)
- 100 W × 4 (4 Ω)/200 W × 2 (4 Ω) (max. power)
- Bridgeable 2/3/4-channel capability
- Current feedback amplifier
- L/R independent power supply
- L/R symmetric layout circuit
- Input level/gain control (400 mV to 6.5 V) (L/R independent)
- Low load impedance capability (4 ohm, 2 ohm to 8 ohm allowable)
- Gold-plated RCA input terminals
- Gold-plated large block-type speaker terminals
- Gold-plated large block-type power/ground terminal
- PWM regulated power supply with MOSFET switching
- High-performance balanced isolator circuit
- Bipolar transistor

### Head Units Features Comparison

| | | DEH-P6050UB | DEH-P5050UB | DEH-P4050UB | DEH-3050UB | DEH-P3000IB | DEH-3050MP | DEH-2050MP(G) | DEH-1050E | DEH-P80RSII |
|---|---|---|---|---|---|---|---|---|---|---|
| **CD PLAYER** | | | | | | | | | | |
| CD-R/RW playback | | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| WMA (Windows Media™ Audio) playback with WMA Tag[1] | | ● | ● | ● | ● | ● | ● | ● | | ● |
| MP3 playback with ID3 Tag[1] | | ● | ● | ● | ● | ● | ● | ● | | ● |
| iTunes® AAC playback[1] | | ● | ● | ● | | ● | | | | ● |
| WAV file playback[1] | | ● | ● | ● | ● | ● | ● | ● | | ● |
| Folder/file list search (CD-ROM) | | ● | ● | ● | ● | ● | | | | ● |
| D/A Converters with 8 × oversampling digital filter <B = Burr Brown, 1 = 1-bit> | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | B |
| Digital direct | | | | | | | | | | ● |
| Track scan | | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| CD pause | | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Repeat (CD-DA: disc/track, CD-ROM: file/folder) | | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Random play (Disc) | | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Disc title memory (48 titles) | | ● | ● | ● | ● | ● | | | | ● |
| CD Text | | ● | ● | ● | ● | ● | ● | ● | | ● |
| Advanced Sound Retriever | | ● | ● | ● | ● | | | | | |
| Digital compression | | | | | | ● | ● | ● | | ● |
| BMX (Bitmetric Equalizer) | | | | | | ● | ● | ● | | |
| **TUNER** | | | | | | | | | | |
| Supertuner* <IIID+ = Supertuner* IIID+, IIID = Supertuner* IIID> | | IIID | IIID | IIID | IIID | IIID | IIID | IIID | IIID | IIID+ |
| BSM (Best Stations Memory) | | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Local seek tuning | | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 24-station (18 FM/6 AM) presets | | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 9 kHz/10 kHz AM channel spacing switch | | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| **AUDIO** | | | | | | | | | | |
| High-power output | MOSFET 50 W × 4 (max.) | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 3 RCA pre-outs | Front + Rear + Subwoofer <G = Gold-plated> | ● | ● | ● | | | | | | G |
| 2 RCA pre-outs | Front + Rear/Front + Subwoofer (selectable) | | | | ● | ● | | | | |
| RCA pre-out | Rear | | | | | | ● | ● | ● | |
| High-voltage pre-out (V) | | 4 | 4 | 4 | | | | | | 5 |
| DSP | Built-in DSP (Digital Signal Processor) | | | | | | | | | ● |
| | Burr Brown advanced segment-type 24-bit D/A Converter | | | | | | | | | ● |
| | Auto EQ | | | | | | | | | ● |
| | Auto EQ for 3-way network | | | | | | | | | ● |
| | Auto time alignment | | | | | | | | | ● |
| | BBE® digital sound processing | | | | | | | | | ● |
| | Digital listening position selector | | | | | | | | | ● |
| | BMX (Bitmetric Equalizer) | | | | | | | | | ● |
| | L/R independent 16-band digital graphic equalizer | | | | | | | | | ● |

| | | DEH-P6050UB | DEH-P5050UB | DEH-P4050UB | DEH-3050UB | DEH-P3000IB | DEH-3050MP | DEH-2050MP(G) | DEH-1050E | DEH-P80RSII |
|---|---|---|---|---|---|---|---|---|---|---|
| **AUDIO (continued)** | | | | | | | | | | |
| | L/R independent 3-way crossover: high/mid/low | | | | | | | | | ● |
| | 3-way digital network | | | | | | | | | ● |
| Direct Sub Drive | | ● | ● | ● | ● | ● | | | | |
| Subwoofer control | | ● | ● | ● | ● | ● | | | | ● |
| Loudness <H = High, M = Mid, L = Low> | | | | H/M/L | H/M/L | | | | | ● |
| Fader/electronic volume/balance controls | | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Tone control (Bass/Mid/Treble) | | | | | | | ● | ● | ● | |
| SLA (Source level adjuster) | | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Spectrum analyzer | | ● | | | | | | | | ● |
| Level indicator <L/R = L/R independent> | | ● | | | | | | | | L/R |
| Cellular mute | | ● | ● | | | | | | | ● |
| **USB/iPod*/Bluetooth® CONTROL** | | | | | | | | | | |
| USB direct connection (F = Front) | | ● | ● | ● | F | | | | | |
| USB adapter ready <E = External unit control> | | | E | | | ● | | | | E |
| USB text | | ● | ● | ● | ● | | | | | |
| iPod* direct connection | | ●(2) | ●(2) | ●(2) | | ●(3) | | | | |
| iPod* adapter ready <E = External unit control> | | ● | ● | ● | | E | | | | ● |
| List search for iPod* | | ● | | ● | | | | | | |
| Bluetooth® adapter ready <E = External unit control> | | ● | ● | ● | | ● | | | | E |
| **GENERAL** | | | | | | | | | | |
| Rotary Commander | | ● | ● | ● | ● | ● | | | | ● |
| Rotary volume | | | | | | | ● | ● | ● | |
| Wireless remote controller <10 = 10-key direct access remote, C = Card> | | 10 | C | C | C | C | C | C | | 10 |
| Face type <A = Auto-slide, F = Flap, P = Pop-up> | | A | F | P | P | P | P | P | P | A |
| Detachable Face Security™ | | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Clock <E = Entertainment> | | E | ● | ● | ● | ● | ● | ● | ● | E |
| Dot-matrix OEL (Organic EL) display <W =White> | | ● | | | | | | | | W |
| Segmented OEL (Organic EL) display | | | ● | ● | | | | | | |
| LCD display <W = White, B = Black back> | | | | | W | B | B | B | B | |
| Brightness adjustment | | ● | | | | | | | | ● |
| System control terminal | | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Multi-language display (English/Spanish/Portuguese) | | ● | | | | | | | | ● |
| Display off security | | ● | | | | | | | | ● |
| Source CD control <E = External unit control> | | E | E | E | | E | | | | E |
| Source TV control (analog tuner control) | | ● | ● | ● | | ● | | | | ● |
| Source DVD control <E = External unit control> | | ● | E | E | | E | | | | ● |
| External unit control via IP-Bus | | 2 | 2 | 2 | | 2 | | | | 2 |
| Direct AUX-in | AUX-1 <F = Front, R = Rear> | R | R | F | R | F | F | F | F | ● |
| | AUX-2[4] | ● | ● | ● | | ● | | | | ● |

(1) With CD-ROM and CD-R/RW discs. (2) Use with optional CD-IU50 Interface Cable for iPod*. (3) Use with optional CD-I200 Interface Cable for iPod*. (4) IP-Bus with CD-RB10 or CD-RB20.



# MORE BASS, MAXIMUM EFFICIENCY

## GM-D8400M 1 200 W MAX. Class-D Mono Amplifier

LPF · RCA INPUT · SPEAKER INPUT · Bass Boost

- 300 W × 1 (4 Ω)/600 W × 1 (2 Ω) (continuous power)
- 600 W × 1 (4 Ω)/1 200 W × 1 (2 Ω) (max. power)
- Bass Boost with Remote (50 Hz, 0 dB to 12 dB variable)

## GM-D7400M 800 W MAX. Class-D Mono Amplifier

LPF · RCA INPUT · SPEAKER INPUT · Bass Boost

- 200 W × 1 (4 Ω)/400 W × 1 (2 Ω) (continuous power)
- 400 W × 1 (4 Ω)/800 W × 1 (2 Ω) (max. power)
- Bass Boost (50 Hz, 0 dB/+6 dB/+12 dB)

GM-D8400M

**Common Features**

- Single-ended output circuit
- Variable LPF (40 Hz to 240 Hz, –12 dB/oct.)
- Input level/gain control (200 mV to 6.5 V)
- Low load impedance capability (2 ohm to 8 ohm)
- RCA input terminals
- Large block-type speaker terminals
- Large block-type power/ground terminals
- Speaker level input (0.8 V to 26 V)
- Speaker line input turn-on sensor
- High-performance balanced isolator circuit
- High-efficiency MOSFET output section
- Aluminum die-cast heatsink

## Class-D Amplifiers

GM-D8400M · GM-D7400M

Class-D amplifiers overcome the inefficiencies of traditional Class-A or AB amplifiers. Pioneer's Class-D amps transform very little power into heat while a very high percentage of the power supply (67 %) is transformed into the load. This results in a very compact amp which needs little input power to produce very high output power.

The Class-D amplifier's PWM (Pulse Width Modulator) modulates the original audio input signal with another signal which has a much higher fixed frequency. The result is a digital signal which contains the input signal and a band of frequency components around the modulation frequency. A LPF (Low Pass Filter) will then filter out the high frequency pulses and the resulting amplified output signal is then sent to the subwoofer and/or speakers.

## RD-228 Power Cable

- For use with amplifier with block terminal

### Power Amplifiers Features Comparison

| | GM-D8400M | GM-D7400M | PRS-A900 |
|---|---|---|---|
| Bridgeable 2/3/4-channel capability | | | ● |
| Class-D mono amplifier | ● | ● | |
| Current feedback amplifier | | | ● |
| Single-ended output circuit | ● | ● | |
| L/R independent power supply | | | ● |
| L/R symmetric layout circuit | | | ● |
| Variable LPF (40 Hz to 240 Hz, –12 dB/oct.) | ● | ● | |
| L/R independent input level control (400 mV to 6.5 V) | | | ● |
| Input level/gain control (200 mV to 6.5 V) | ● | ● | |
| Low load impedance capability (4 ohm, 2 ohm to 8 ohm allowable) | | | ● |
| Low load impedance capability (2 ohm to 8 ohm) | ● | ● | |
| RCA input terminals <G = Gold-plated> | ● | ● | G |
| Large block-type speaker terminals <G = Gold-plated> | ●(1) | ●(1) | G(2) |
| Large block-type power/ground terminals <G = Gold-plated> | ●(3) | ●(3) | G(3) |
| Speaker level input (0.8 V to 26 V) | ● | ● | |
| Speaker line input turn-on sensor | ● | ● | |
| Bass Boost with Remote (50 Hz, 0 dB to 12 dB variable) | ● | | |
| Bass Boost (50 Hz, 0 dB/+6 dB/+12 dB) | | ● | |
| PWM regulated power supply with MOSFET switching | | | ● |
| High-performance balanced isolator circuit | ● | ● | ● |
| High-efficiency MOSFET output section | ● | ● | |
| Bipolar transistor | | | ● |
| Aluminum die-cast heatsink | ● | ● | |

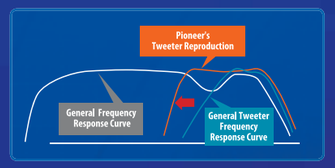
(1) 10- to 16-gauge (2) 12- to 18-gauge (3) 4- to 8-gauge

### Power Amplifiers Specifications

| | | | GM-D8400M | GM-D7400M | PRS-A900 |
|---|---|---|---|---|---|
| Max. power output [14.4 V] | 4-channel mode | | — | — | 100 W × 4 (4 Ω) |
| | 2-channel mode | | — | — | 200 W × 2 (4 Ω) |
| | 1-channel mode | | 600 W × 1 (4 Ω)<br>1 200 W × 1 (2 Ω) | 400 W × 1 (4 Ω)<br>800 W × 1 (2 Ω) | — |
| Continuous power output [14.4 V] | 4-channel mode | | — | — | 50 W × 4 (4 Ω)<br>50 W × 4 (2 Ω) |
| | 2-channel mode | | — | — | 100 W × 2 (4 Ω) |
| | 1-channel mode | | 300 W × 1 (4 Ω)<br>600 W × 1 (2 Ω) | 200 W × 1 (4 Ω)<br>400 W × 1 (2 Ω) | — |
| Frequency response | +0 dB, –1 dB | Hz | — | — | 10 to 100 000 |
| | +0 dB, –3 dB | Hz | 10 to 240 | 10 to 240 | — |
| Total harmonic distortion | | % | 0.3 | 0.3 | 0.003 |
| S/N ratio [IEC-A network] | | dB | 80 | 80 | 108 |
| Dimensions (W × H × D) | | mm | 290 × 56 × 200 | 225 × 56 × 200 | 282 × 65 × 371 |

# TRUER TO NATURE

To advance the ideal of "Open & Smooth" sound, Pioneer referred to its hit PRS speakers to create new TS-D and TS-A speakers. The benefits are clear: extra-wide directivity, low distortion and extended frequency range in the tweeter, plus well-balanced midrange and tweeter output. The impact is huge: rich, dynamic detail; expansive soundstage; and natural-sounding smoothness and linearity from any source.




OPEN & SMOOTH™

**Wider Response, Lower Crossover**
Pioneer expands lower-frequency response in tweeters for fuller midrange fidelity.

TS-D1720C

## TS-D Series Speakers

### TS-D1720C 260 W MAX.

17 cm Packaged Component Speaker System

- 17 cm woofer/28 mm soft-dome tweeter
- 16 cm compatible shallow mounting adapter included

### TS-D1320C 180 W MAX.

13 cm Packaged Component Speaker System

- 13 cm woofer/28 mm soft-dome tweeter

**Common Features**

INJECTION MOLDED CONE™

- Dual-layer IMX™ (Injection Molded Matrix) Aramid/Basalt fiber composite cone
- Large-sized woofer magnet
- Butyl rubber surround for smoother response
- Glass-imide voice coil bobbin
- Copper short ring for low distortion
- Single conex damper
- Thick woofer basket for lower distortion
- Light weight soft-dome tweeter with neodymium magnet and magnetic fluid
- Rear chamber for lower crossover frequency (tweeter)
- Surface (angled), flush or invisible tweeter mounting kit
- Outboard screw-type crossover (LPF: –12 dB/oct., HPF: –12 dB/oct.)
- Tweeter level control (0 dB/–3 dB)

## Dual-Layer IMX™ (Injection Molded Matrix) Aramid/Basalt Fiber Composite Cone

TS-D1720C | TS-D1320C | TS-D6902R | TS-D1702R | TS-D1602R | TS-D1302R | TS-D1002R

To create new TS-D series speakers, Pioneer developed the industry's first basalt fiber made from natural rock interwoven with aramid fiber. Used in the surface layer, this Aramid/Basalt Fiber material is highly rigid and better absorbent, enhancing stability and maintaining integrity throughout a wide temperature range. Together, the Dual-Layer IMX™ Aramid/Basalt Fiber and IMPP Composite Cone provide for outstanding low and mid bass range fidelity, low distortion as well as extraordinarily detailed, accurate sound reproduction.

**Microscopic Cross Section View**

Aramid/Basalt Fiber Skin with Ceramic Coating
- Reproduces lively sound
- Disperses resonance

Composite Foamed IMPP
- Better transience in low and mid-low range
- Better rigidity and velocity
- Light weight for better response





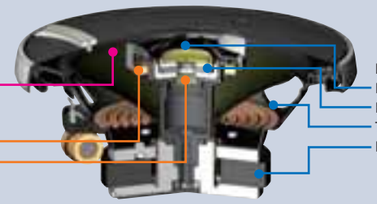
## TS-D6902R 360 W MAX.

6" × 9" 2-Way Speaker

INJECTION MOLDED CONE™

- 6" × 9" (16 cm × 24 cm) woofer/28 mm soft-dome tweeter
- Dual-layer IMX™ (Injection Molded Matrix) Aramid/Basalt fiber composite cone
- Large-sized woofer magnet
- Butyl rubber surround for smoother response
- Glass-imide voice coil bobbin
- Extended pole yoke design
- Thick woofer basket for lower distortion
- Light weight soft-dome tweeter with neodymium magnet and magnetic fluid
- Light weight copper-clad aluminum voice coil wire for tweeter
- Wave guides for dispersion control
- Rear chamber for lower crossover frequency
- Lowered tweeter protrusion for wider installation coverage
- High-quality built-in crossover design (LPF: –6 dB/oct., HPF: –12 dB/oct.)

**TS-D6902R Cross Section**



**Rigid and Light Weight Cone**
Dual-layer IMX™ (Injection Molded Matrix)
Aramid/Basalt fiber composite cone

**Lower Crossover Frequency**
Passive crossover (woofer: –6 dB/tweeter: –12 dB)
Rear chamber

**Low Distortion**
Light weight soft-dome diaphragm
High-power neodymium tweeter magnet
Thick woofer basket
Large-sized woofer magnet

## TS-D1702R 280 W MAX.

17 cm 2-Way Speaker

- 17 cm woofer/28 mm soft-dome tweeter
- Extended pole yoke design
- High-quality built-in crossover design (LPF: –6 dB/oct., HPF: –12 dB/oct.)
- Rear chamber for lower crossover frequency
- Thick woofer basket for lower distortion

TS-D1702R

## TS-D1602R 260 W MAX.

16 cm 2-Way Speaker

- 16 cm woofer/28 mm soft-dome tweeter
- Extended pole yoke design
- High-quality built-in crossover design (LPF: –6 dB/oct., HPF: –12 dB/oct.)
- Rear chamber for lower crossover frequency
- Thick woofer basket for lower distortion

TS-D1602R

## TS-D1302R 180 W MAX.

13 cm 2-Way Speaker

- 13 cm woofer/18 mm soft-dome tweeter
- Rear chamber for lower crossover frequency

TS-D1302R

## TS-D1002R 110 W MAX.

10 cm 2-Way Speaker

- 10 cm woofer/18 mm soft-dome tweeter
- Rear chamber for lower crossover frequency

TS-D1002R

**Common Features**

INJECTION MOLDED CONE™

- Dual-layer IMX™ (Injection Molded Matrix) Aramid/Basalt fiber composite cone
- Butyl rubber surround for smoother response
- Glass-imide voice coil bobbin
- Single conex damper
- Heat-resistant metal frame with punching hole
- Light weight soft-dome tweeter with neodymium magnet and magnetic fluid
- Wave guides for dispersion control
- Lowered tweeter protrusion for wider installation coverage

# OPEN UP TO SMOOTHER SOUND

OPEN & SMOOTH™

TS-A1702C

TS-A1302C

## TS-A Series Speakers

### TS-A1702C 230 W MAX.

17 cm Packaged Component Speaker System

- 17 cm woofer/23 mm soft-dome tweeter
- Extended pole yoke design

### TS-A1302C 180 W MAX.

13 cm Packaged Component Speaker System

- 13 cm woofer/23 mm soft-dome tweeter

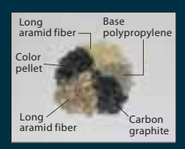
**Common Features**

- Carbon graphite IMPP cone woofer using interlaced aramid fiber
- Butyl rubber surround for smoother response
- Glass-imide voice coil bobbin
- Single conex damper
- Light weight soft-dome tweeter with neodymium magnet and magnetic fluid
- Rear chamber for lower crossover frequency (tweeter)
- Surface (angled), flush or invisible tweeter mounting kit
- In-line type high-quality crossover (LPF: –6 dB/oct., HPF: –12 dB/oct.)

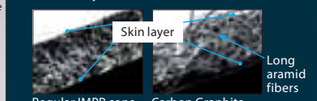
## Composite IMPP Cone with Interlaced Aramid Fiber

TS-A1702C | TS-A1302C | TS-A2503i | TS-A2003i | TS-A6872R

With long aramid fibers interlacing together inside, this IMPP cone design provides the strength and rigidity that powerful bass sound requires. High-density compressed internal architecture is resilient, stacks up against high power well and transfers sound quickly. The result is full-bodied, rich sound character with midrange depth that conventional IMPP cones cannot match.




**Microscopic Cross Section View**




Regular IMPP cone

Carbon Graphite IMPP Cone with Interlaced Aramid Fiber

Composite IMPP Cone with Interlaced Aramid Fiber





## TS-A2503i 420 W MAX.

25 cm 3-Way Speaker

- 25 cm woofer/57 mm midrange/17 mm tweeter

## TS-A2003i 400 W MAX.

20 cm 3-Way Speaker

- 20 cm woofer/57 mm midrange/17 mm tweeter

**Common Features**

- Carbon graphite IMPP cone woofer using interlaced aramid fiber
- Light weight foamed rubber coated cloth surround
- Wide range designed balanced dome midrange

TS-A2503i

TS-A2003i

## TS-A6872R 240 W MAX.

6" × 8" 3-Way Speaker

- 6" × 8" (16 cm × 20 cm) carbon graphite IMPP cone woofer using interlaced aramid fiber
- Butyl rubber surround for smoother response
- Glass-imide voice coil bobbin
- Copper voice coil
- Single conex damper
- Extended pole yoke design
- 33 mm light weight balanced dome midrange with neodymium magnet and magnetic fluid
- 9 mm silver PET film dome tweeter
- Shallow basket design for installation versatility

### Speakers Specifications

| | Size | Max. Input | Nominal Input | Frequency Response | Sensitivity | Impedance | Dimensions (W × H × D) | Mounting Depth | Cut-Out Dimensions |
|---|---|---|---|---|---|---|---|---|---|
| **TS-D1720C** | 17 cm 28 mm* | 260 W | 60 W | 30 Hz to 33 000 Hz | 88 dB | 4 Ω | ø156 mm × 81.9 mm | 64.5 mm 51 mm* | ø144 mm |
| **TS-D1320C** | 13 cm 28 mm* | 180 W | 35 W | 35 Hz to 33 000 Hz | 88 dB | 4 Ω | ø129 mm × 63.4 mm | 57.5 mm | ø121 mm |
| **TS-D6902R** | 6" × 9" | 360 W | 80 W | 28 Hz to 30 000 Hz | 90 dB | 4 Ω | 237 mm × 106.2 mm × 163 mm | 89 mm | 220 mm × 151 mm |
| **TS-D1702R** | 17 cm | 280 W | 60 W | 30 Hz to 32 000 Hz | 87.5 dB | 4 Ω | ø156 mm × 81.9 mm | 64.5 mm | ø144 mm |
| **TS-D1602R** | 16 cm | 260 W | 60 W | 35 Hz to 32 000 Hz | 88 dB | 4 Ω | ø161 mm × 80.4 mm | 59 mm | ø128 mm |
| **TS-D1302R** | 13 cm | 180 W | 35 W | 35 Hz to 40 000 Hz | 88 dB | 4 Ω | ø129 mm × 67.8 mm | 57.5 mm | ø121 mm |
| **TS-D1002R** | 10 cm | 110 W | 25 W | 40 Hz to 40 000 Hz | 86 dB | 4 Ω | ø125 mm × 46.2 mm | 46.5 mm | ø106 mm |
| **TS-A1702C** | 17 cm 23 mm* | 230 W | 50 W | 31 Hz to 35 000 Hz | 90 dB | 4 Ω | ø156 mm × 68.5 mm | 62.5 mm 49.5 mm* | ø139 mm |
| **TS-A1302C** | 13 cm 23 mm* | 180 W | 35 W | 36 Hz to 30 000 Hz | 90 dB | 4 Ω | ø129 mm × 58.9 mm | 53 mm | ø121 mm |
| **TS-A2503i** | 25 cm | 420 W | 80 W | 20 Hz to 31 000 Hz | 92 dB | 4 Ω | ø285 mm × 152 mm | 115 mm | ø236 mm |
| **TS-A2003i** | 20 cm | 400 W | 80 W | 27 Hz to 32 000 Hz | 90 dB | 4 Ω | ø244 mm × 132 mm | 96 mm | ø202 mm |
| **TS-A6872R** | 6" × 8" | 240 W | 40 W | 35 Hz to 32 000 Hz | 90 dB | 4 Ω | 203.7 mm × 145 mm × 72.5 mm | 62 mm | 191 mm × 133 mm |
| **TS-G1642R** | 16 cm | 180 W | 30 W | 40 Hz to 30 000 Hz | 90 dB | 4 Ω | ø158 mm × 55 mm | 42 mm | ø142 mm |
| **TS-G1612R** | 16 cm | 160 W | 30 W | 30 Hz to 25 000 Hz | 90 dB | 4 Ω | ø158 mm × 55 mm | 44 mm | ø142 mm |
| **TS-G1342R** | 13 cm | 140 W | 25 W | 40 Hz to 25 000 Hz | 89 dB | 4 Ω | ø149 mm × 57 mm | 46 mm | ø129 mm |
| **TS-G1312R** | 13 cm | 130 W | 25 W | 30 Hz to 25 000 Hz | 89 dB | 4 Ω | ø149 mm × 49 mm | 46 mm | ø129 mm |
| **TS-G1042R** | 10 cm | 120 W | 25 W | 35 Hz to 30 000 Hz | 87 dB | 4 Ω | ø125 mm × 43 mm | 43 mm | ø106 mm |
| **TS-G1012R** | 10 cm | 110 W | 20 W | 35 Hz to 29 000 Hz | 87 dB | 4 Ω | ø125 mm × 43 mm | 43 mm | ø106 mm |
| **TS-G4642R** | 4" × 6" | 130 W | 20 W | 35 Hz to 28 000 Hz | 89 dB | 4 Ω | 158 mm × 102 mm × 51 mm | 41.5 mm | 153 mm × 95 mm |

*With mounting adapter

## TS-G Series Speakers

### TS-G1642R
180 W MAX.

16 cm 2-Way Speaker

- 16 cm woofer/30 mm tweeter
- Shallow basket design for installation versatility
- Increased installation versatility with extra tabs (16 cm/GM 17 cm compatibility)

### TS-G1342R
140 W MAX.

13 cm 2-Way Speaker

- 13 cm woofer/30 mm tweeter
- Shallow basket design for installation versatility
- Renault/DIN compatible basket

### TS-G1042R
120 W MAX.

10 cm 2-Way Speaker

- 10 cm woofer/30 mm tweeter
- 4-/2-hole compatibility (removable screw holes)

TS-G1642R

**Common Features**
- Metallic silver IMPP cone woofer
- Polyimide voice coil bobbin
- Copper voice coil
- PEI (poly-ether imide) balanced dome tweeter with neodymium magnet and magnetic fluid

### TS-G1612R
160 W MAX.

16 cm Dual-Cone Speaker

- 16 cm woofer
- Shallow basket design for installation versatility
- Increased installation versatility with extra tabs (16 cm/GM 17 cm compatibility)

### TS-G1312R
130 W MAX.

13 cm Dual-Cone Speaker

- 13 cm woofer
- Polyimide voice coil bobbin
- Shallow basket design for installation versatility
- Renault/DIN compatible basket

### TS-G1012R
110 W MAX.

10 cm Dual-Cone Speaker

- 10 cm woofer
- 4-/2-hole compatibility (removable screw holes)

TS-G1612R

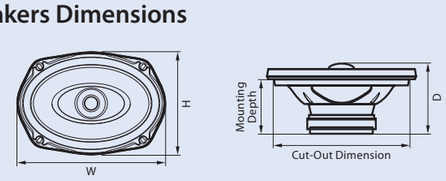
**Common Features**
- Metallic silver IMPP cone woofer
- Copper voice coil

### TS-G4642R
130 W MAX.

4" × 6" 2-Way Speaker

- 4" × 6" (10 cm × 16 cm) metallic silver IMPP cone woofer
- 30 mm PEI (poly-ether imide) balanced dome tweeter with neodymium magnet and magnetic fluid
- Custom-fit US/European compatible basket design

### Speakers Dimensions






## SHALLOW DIMENSIONS, DEEP IMPACT

New Pioneer subwoofers with Air Suspension System pack huge sonic punch, yet feature a shallow design for very versatile installation within a small enclosure. Startling depth emerges in the lower frequency range, thanks to extra-efficient handling of power through the speaker cone.

## Shallow-Type Subwoofers

### TS-SW301
1 000 W MAX.

30 cm (12") Component Subwoofer

- Enclosure volume: 14.2 L to 28.3 L
- Shallow mounting design: 86 mm

### TS-SW251
800 W MAX.

25 cm (10") Component Subwoofer

- Enclosure volume: 9.9 L to 19.8 L
- Shallow mounting design: 78 mm

**Common Features**
- Double-cone structure with air-suspension control system
- Composite IMPP double cone woofer using interlaced carbon and ultra long glass fiber
- 3-layer fiber woven radial surround with M-shape cross-section
- 4-layer voice coil
- Heat-resistant ABS damper ring
- Extended and vented pole yoke
- One piece, ABS silver gasket
- Bottom hold basket design
- Silver push terminal design

TS-SW301

## Component Subwoofers

### TS-W302R
800 W MAX.

30 cm (12") Component Subwoofer

### TS-W252R
600 W MAX.

25 cm (10") Component Subwoofer

**Common Features**
- IMPP composite cone
- Aluminum voice coil bobbin
- Single nomex damper
- Copper round wire long voice coil
- Extended and vented pole yoke

TS-W302R

*Caution: To avoid damaging your amplifier/subwoofer system, please make sure that the continuous power output of the amplifier is lower than the nominal power handling of the subwoofer.*

### Subwoofers Dimensions

### Subwoofers Specifications

| | Size | Max. Input | Nominal Input | Frequency Response | Sensitivity | Impedance | Dimensions (W × H × D) | Mounting Depth | Cut-Out Dimensions |
|---|---|---|---|---|---|---|---|---|---|
| **TS-SW301** | 30 cm | 1 000 W | 250 W | 20 Hz to 114 Hz | 91 dB | 4 Ω | ø327 mm × 100 mm | 86 mm | ø278 mm |
| **TS-SW251** | 25 cm | 800 W | 200 W | 20 Hz to 144 Hz | 89 dB | 4 Ω | ø278 mm × 92 mm | 78 mm | ø238 mm |
| **TS-W302R** | 30 cm | 800 W | 150 W | 20 Hz to 90 Hz | 97 dB | 4 Ω | ø327 mm × 164 mm | 145 mm | ø278 mm |
| **TS-W252R** | 25 cm | 600 W | 120 W | 20 Hz to 110 Hz | 95 dB | 4 Ω | ø277 mm × 154 mm | 135 mm | ø238 mm |